

REPUBLIC OF FRANCE

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INDUSTRIAL PROPERTY

SEARCH REPORT

National Registration No.:

prepared on the basis of the latest
claims filed before the search was started

FA 585942
FR 0005639

DOCUMENTS CONSIDERED PERTINENT		Claims concerned of the examined application	Search Classes (Int. Cl. Int. CL.7) H02K
Category	Documents cited stating pertinent parts where necessary		
X	US 4 339 874 (MC CARTY FREDRICK B ET AL) July 20, 1982 (07-20-1982)	1-5 18-21	H02K1/28 H02K21/14
Y	* column 1, line 55 - line 61, figure 1* *column 2, line 64 - line 66* *column 3, line 32 - line 39; claim 1*	6-8, 12, 13	
Y	FR 2 655 784 A (ALSTHOM GEC) June 14, 1991 (06-14-1991)	6-8	
A	*column 1, line 1 - line 2; figures 1-3, 5* *column 5, line 13 - line 17*	14-16	
Y	US 5 162 686 A (ROYER LAURENT) November 10, 1992 (11-10-1992) *column 1, line 1 - line 3; figures 2, 5* *column 2, line 58 - line 60*	12, 13	
A	EP 0 143 693 A (FRANKLIN ELECTRIC CO INC) June 5, 1985 (06-05-1985) *abstract; figure 11*	9, 10	
Date of Search: January 22, 2001		Examiner: Contreras Sampayo, J	
CATEGORIES OF DOCUMENTS CITED			
X:	particularly pertinent by itself	T:	theory or principle at the basis of the invention
Y:	particularly pertinent in combination with another document in the same category	E:	patent document benefiting from a date prior to the filing date which was not published until this filing date or a subsequent date
A:	pertinent to at least one claim or general technological background	D:	cited in application
O:	unwritten disclosure	L:	cited for other reason
P:	intervening document	&:	members of the same family, corresponding document

APPENDIX TO SEARCH REPORT FOR FRENCH PATENT APPLICATION NO.

FA 585942

FR 0005639

This appendix gives the members of the family of patents relating to the patent documents cited in the above-identified search report. These members were contained in the database of the European Patent Office as of January 22, 2001. The information supplied is for information only and neither the European Patent Office nor the French Government incurs any liability thereunder.

Patent Document Cited in Search Report	Publication Date	Member(s) of Patent Family	Publication Date
US 4339874 A	07-20-1982	US 4242610 A AT 23006 T DE 2967628 D EP 0013157 A	12-30-1980 11-15-1986 11-20-1986 07-09-1980
FR 2655784 A	06-14-1991	AT 102765 T DE 69007244 D DE 69007244 T DK 431514 T EP 0431514 A ES 2050917 T JP 4340340 A US 5091668 A	03-15-1994 04-14-1994 06-16-1994 06-20-1994 06-12-1991 06-01-1994 11-26-1992 02-25-1992
US 5162686 A	11-10-1992	FR 2655214 A AT 102764 T DE 69007243 D DE 69007243 T DK 430795 T EP 0430795 A ES 2052216 T WO 9108607 A JP 7057075 B JP 4500450 T	05-31-1991 03-15-1994 04-14-1994 06-16-1994 07-04-1994 06-05-1991 07-01-1994 06-13-1991 06-14-1995 01-23-1992
EP 0143693 A	06-05-1985	AUCUN	

EUROPEAN PATENT OFFICE

Application No.:

EUROPEAN SEARCH REPORT

EP 01 40 0981

DOCUMENTS CONSIDERED PERTINENT		Claims concerned of the examined application	Classification of the application (Int. Cl.)
Category	Documents cited stating pertinent parts where necessary		
X	US 5 841 212 A (MITA MASAHIRO ET AL) November 24, 1998 (1998-11-24) *Abstract; Figures 1, 2*	1	H02K1/27 H02K1/14 H02K21/16 H02K1/18
X	EP 0 872 943 A (JAPAN SERVO) October 21, 1998 (1998-10-21) *Column 2, line 5 - 12; figures 2, 6* *Column 2, line 28 - line 50*	1, 4	H02K11/00 H02K29/08 H02K3/18 H02K3/52
X	FR 2 784 815 A (VALEO EQUIP ELECTR MOTEUR) April 21, 2000 (2000-04-21) *Abstract; figures 1, 3* *Page 1, line 1 - line 5* *Page 1, line 15 - line 21* *Page 6, line 6 - line 27*	1, 2, 13	
X	EP 0 365 689 A (FANUC LTD) May 2, 1990 (1990-05-02) *Abstract; figure 8* *Page 1, line 33 - page 2, line 16* *Page 6, line 27 - page 7, line 33*	1, 2, 13	
X	WEINMANN D: "APPLICATION OF NDFEB-MAGNETS IN MOTORS" REVUE GENERALE DE L'ELECTRICITE, FR, RGE. PARIS, no. 4, April 1, 1991 (1991-04-01), pages 45-51, XP000227187 ISSN: 0035-3116 *Abstract; figure 2B*	1	Search Classes (Int. Cl. 7) H02K
A	EP 0 438 594 A (FANUC LTD) July 31, 1991 (1991-07-31) *column 3, line 20 - line 22; figure 4*	9-12	
X	US 5 162 686 A (ROYER LAURENT) November 10, 1992 (1992-11-10)	1, 5, 13	
A	*Abstract; figures 1, 5, 6* *Column 2, line 7 - line 17*	6, 7, 9-12	
X	US 5 091 668 A (BENDAHMANE BOUZIANE ET AL) February 25, 1992 (1992-02-25) *column 2, line 1 - line 5; figure 4*	1, 5, 8	

X	EP 0 866 540 A (ELECTRIC BOAT CORP) September 23, 1998 (1998-09-23) *Abstract; figures 4, 1, 2* *Column 3, line 44 - line 55* *Column 5, line 14 - line 20*	1, 5-7,14	
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 8, October 6, 2000 (2000-10-06) & JP 2000 152537 A (CONCEPTION & AMP; DEV MICHELIN SA), May 30, 2000 (2000-05-30) *Abstract*	1, 16	

The present search report is established for all claims

Place of Search LA HAYE	Date of Search July 11, 2001	Examiner Contreras Sampayo, J
CATEGORIES OF DOCUMENTS CITED		
X: particularly pertinent by itself	T: theory or principle at the basis of the invention	
Y: particularly pertinent in combination with another document in the same category	E: patent document benefiting from a date prior to the filing date which was not published until this filing date or a subsequent date	
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P: intervening document	&: members of the same family, corresponding document	

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EP 01 40 0981

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		TW 380329 B	01-21-2000
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EP 0365689 A	05-02-1990	JP 1278247 A	11-08-1989
		DE 68904728 D	03-18-1993
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		WO 9108607 A	06-13-1991
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US 5091668 A	02-25-1992	FR 2655784 A	06-14-1991
		AT 102765 T	03-15-1994
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For all information concerned with this Annex: See Official Journal of European Patent Office No. 12/82.

EUROPEAN PATENT OFFICE

EUROPEAN SEARCH REPORT

Application No.:

EP 02 29 1384

DOCUMENTS CONSIDERED PERTINENT		Claims concerned of the examined application	Classification of the application (Int. Cl. 7)
Category	Documents cited stating pertinent parts where necessary		
X	US 4 339 874 A (MC CARTY FREDERICK B ET AL) 20 July 1982 (1982-07-20) *column 1, line 55-line 61; figure 1 *	1	H02K1/27 H02K1/14
Y	*column 2, line 64-line 66* *column 3, line 32-line 39* *claim 1*	2-5,10, 12,13	H02K21/16 H02K1/18 H02K11/00 H02K29/08 H02K3/18 H02K3/52 H02K15/03
Y	FR 2 784 815 A (VALEO EQUIP ELECTR MOTEUR) 21 April 2000 (2000-04-21) *abstract; figures 1,3* *page 1, line 1-line 5* *page 1, line 15-line 21* *page 6, line 6-line 27*	2	
Y	US 5 162 686 A (ROYER LAURENT) 10 November 1992 (1992-11-10) *abstract; figures 1,5,6* *column 2, line 7-line 17*	3-5,10	
Y	EP 0 438 594 A (FANUC LTD) 31 July 1991 (1991-07-31) *column 3, line 20-line 22; figure 4 *	12,13	
A	US 5 091 668 A (BENDAHMANE BOUZIANE ET AL) 25 February 1992 (1992-02-25) *column 2, line 1-line 5; figure 4*		Search Classes (Int. Cl. 7) H02K
A	PATENT ABSTRACTS OF JAPAN Vol. 2000, no. 08, 6 October 2000 (2000-10-06) & JP 2000 152537 A (CONCEPTION & DEV MICHELIN SA), 30 May 2000 (2000-05-30) *abstract*	13	
The present search report is established for all claims			
Place of Search		Date of Search	Examiner
La Haye		16 August 2002	Contreras Sampayo, J
CATEGORIES OF DOCUMENTS CITED			
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A:	pertinent to at least one claim or general technological background	D:	cited in application
O:	unwritten disclosure	L:	cited for other reason
P:	intervening document	&:	members of the same family, corresponding document

APPENDIX TO SEARCH REPORT FOR EUROPEAN PATENT APPLICATION NO.

EP 02 29 1384

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US 5091668 A	25-02-1992	FR 2655784 A1 AT 102765 T DE 69007244 D1 DE 69007244 T2 DK 431514 T3 EP 0431514 A1 ES 2050917 T3 JP 4340340 A	14-06-1991 15-03-1994 14-04-1994 16-06-1994 20-06-1994 12-06-1991 01-06-1994 26-11-1992
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SEARCH REPORT

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claims filed before the search was started

National Registration No.:

FA 604680
FR 0108933

DOCUMENTS CONSIDERED PERTINENT		Claims concerned of the examined application	Search Classes (Int. Cl. 7)
Category	Documents cited stating pertinent parts where necessary		
X	EP 0 669 699 A (FICHTEL & SACHS AG) 30 August 1995 (1995-08-30) *abstract; claims 1,2,10; figure 1 *	1-7	H02K1/14 H02K3/38 H02K15/02 H02K21/14
X	DE 195 03 610 A (ZAJC FRANC ;ZAJC IVICA (SI)) 14 August 1996 (1996-08-14) *column 7, line 28-line 33* *column 7, line 54-line 63* *figure 7*	1,4,6,7	
Y	DE 199 03 409 C (SYSTEM ANTRIEBSTECHNIK DRESDEN) 20 July 2000 (2000-07-20) *abstract* *figure*	8,10	H02K B60K
Y	PATENT ABSTRACTS OF JAPAN Vol. 2000, no. 14, 5 March 2001 (2001-03-05) -& JP 2000 333407 A (TADA SEIICHI;AKATANI MASAMI), 30 November 2000 (2000-11-30) *abstract; figures 1,2*	9	
Date of Search: 17 December 2001		Examiner: Contreras Sampayo, J	
CATEGORIES OF DOCUMENTS CITED			
X:	particularly pertinent by itself	T:	theory or principle at the basis of the invention
Y:	particularly pertinent in combination with another document in the same category	E:	patent document benefiting from a date prior to the filing date which was not published until this filing date or a subsequent date
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**FR 0108933
FA 604680**

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Patent Document Cited in Search Report	Publication Date	Member(s) of Patent Family	Publication Date
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FA 601594
FR 0105187

DOCUMENTS CONSIDERED PERTINENT		Claims concerned of the examined application	Search Classes (Int. Cl. 7)
Category	Documents cited stating pertinent parts where necessary		
A	EP 0 777 312 A (MULFINGEN ELEKTROBAU EBM) 4 June 1997 (1997-06-04) * column 4, line 14 - line 26 * * column 5, line 29 - line 42 * * column 6, line 44 - line 46; figures 2, 7 *	1	H02K1/14 H02K3/38 H02K15/02 H02K21/14
A	EP 1 050 948 A (MANESMANN SACHS AG) 8 November 2000 (2000-11-08) * claim 1; figure 1 *	1	
A	DE 700 420 C (SIEMENS) 21 November 1940 (1940-11-21) * figures 1, 2 *	3	H02K B60K
A	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 10, 31 August 1998 (1998-08-31) - & JP 10 126990 A (HITACHI LTD), 15 May 1998 (1998-05-15) * abstract; figures 2, 6C *	4, 5	
A	EP 0 872 943 A (JAPAN SERVO) 21 October 1998 (1998-10-21) * figures 2, 3 *	8	
Date of Search: 17 January 2002		Examiner: Contreras Sampayo, J	
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**FA 601594
FR 0105187**

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Patent Document Cited in Search Report	Publication Date	Member(s) of Patent Family	Publication Date
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National Registration No.:

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FA 601596
FR 0105189

DOCUMENTS CONSIDERED PERTINENT		Claims concerned of the examined application	Search Classes (Int. Cl. 7)
Category	Documents cited stating pertinent parts where necessary		
X	GB 258 981 A (BRITISH LIGHTING AND IGNITION; JAMES COCHRANE HUTTON) 7 October 1926 (1926-10-07) * page 1, line 25 - line 37 * * page 1, line 46 - line 50 * * page 1, line 58 * * page 1, line 74 - line 79 * * page 2, line 49 - line 72; figure 1 *	1,4,9	H02K1/14 H02K21/16
Y	US 5 729 072 A (KIKUCHI SEIJI ET AL) 17 March 1998 (1998-03-17) * column 4, line 48 - line 60 * * column 6, line 25 - line 28; figure 2 *	2,3	Search Classes (Int. Cl. 7) H02K
Y	DE 700 420 C (SIEMENS) 21 November 1940 (1940-11-21) * figure 2 *	5,6	
Y	EP 0 872 943 A (JAPAN SERVO) 21 October 1998 (1998-10-21) * abstract; figure 2 *	7,8	
A	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 07, 31 August 1995 (1995-08-31) -& JP 07 107707 A (SHIBAURA ENG WORKS CO LTD), 21 April 1995 (1995-04-21) * abstract; figures 1,2 *	10	
Date of Search: 29 January 2002		Examiner: Contreras Sampayo, J	
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**FA 0105189
FR 601596**

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EUROPEAN PATENT OFFICE

Application No.:

EUROPEAN SEARCH REPORT

EP 02 29 0956

DOCUMENTS CONSIDERED PERTINENT		Claims concerned of the examined application	Classification of the application (Int. Cl. 7)
Category	Documents cited stating pertinent parts where necessary		
A	EP 0 777 312 A (MULFINGEN ELEKTROBAU EBM) 4 June 1997 (1997-06-04) * column 4, line 14 - line 26 * * column 5, line 29 - line 42 * * column 6, line 44 - line 46; figures 2, 7 *	1	H02K3/18 H02K3/52
A	EP 1 050 948 A (MANESMANN SACHS AG) 8 November 2000 (2000-11-08) * claim 1; figure 1 *	1	
A	DE 700 420 C (SIEMENS) 21 November 1940 (1940-11-21) * figures 1, 2 *	3	
A	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 10, 31 August 1998 (1998-08-31) - & JP 10 126990 A (HITACHI LTD), 15 May 1998 (1998-05-15) * abstract; figures 2, 6C *	4, 5	
A	EP 0 872 943 A (JAPAN SERVO) 21 October 1998 (1998-10-21) * figures 2, 3 *	8	
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Place of Search	Date of Search	Examiner	
LA HAYE	26 June 2002	Contreras Sampayo, J	
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EP 02 29 0956

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26-06-2002

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For all information concerned with this Annex: See Official Journal of European Patent Office No. 12/82.

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SEARCH REPORT

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National Registration No.:

FA 601597
FR 0105190

DOCUMENTS CONSIDERED PERTINENT		Claims concerned of the examined application	Search Classes (Int. Cl. 7)
Category	Documents cited stating pertinent parts where necessary		
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Y	EP 1 010 660 A (MITSUBISHI ELECTRIC CORP) 21 June 2000 (2000-06-21) *paragraph 0040!-paragraph '0041!; figure 4 *	2,3,8 11,12	
X	EP 0 101 660 A (MITSUBISHI ELECTRIC CORP) 21 June 2000 (2000-06-21) *paragraph 0040!-paragraph '0041!; figure 4 *	1,5,7	
A	PATENT ABSTRACTS OF JAPAN Vol. 1995, no. 07, 31 August 1995 (1995-08-31) -&JP 07 107707 A (SHIBAURA ENG WORKS CO LTD), 21 April 1995 (1995-04-21) *abstract; figure 1*	2	
Y	EP 0 438 594 A (FANUC LTD) 31 July 1991 (1991-07-31) * column 3, line 20-line 22; figure 4 *	2,3,8	H02K
Y	EP 0 438 594 A (FANUC LTD) 31 July 1991 (1991-07-31) * column 3, line 20-line 22; figure 4 *	11,12	
A	US 4 617 725 A (HOLTER WARREN G ET AL) 21 October 1986 (1986-10-21) *column 2, line 31-line 48; figure 1 *	9	
Date of Search: 25 January 2002		Examiner: Contreras Sampayo, J	
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Y:	particularly pertinent in combination with another document in the same category	E:	patent document benefiting from a date prior to the filing date which was not published until this filing date or a subsequent date
A:	pertinent to at least one claim or general technological background	D:	cited in application
O:	unwritten disclosure	L:	cited for other reason
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**FR 0105190
FA 601597**

This appendix gives the members of the family of patents relating to the patent documents cited in the above-identified search report. These members were contained in the database of the European Patent Office as of 25 January 2002. The information supplied is for information only and neither the European Patent Office nor the French Government incurs any liability thereunder.

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Application No.:

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La Haye	25 June 2002	Contreras Sampayo, J	
CATEGORIES OF DOCUMENTS CITED			
X: particularly pertinent by itself	T: theory or principle at the basis of the invention		
Y: particularly pertinent in combination with another document in the same category	E: patent document benefiting from a date prior to the filing date which was not published until this filing date or a subsequent date		
A: pertinent to at least one claim or general technological background	D: cited in application		
O: unwritten disclosure	L: cited for other reason		
P: intervening document	&: members of the same family, corresponding document		

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La Haye	26 June 2002	Contreras Sampayo, J			
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X:	particularly pertinent by itself				
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O:	unwritten disclosure				
P:	intervening document				
	T:	theory or principle at the basis of the invention			
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La Haye	28 June 2002	Contreras Sampayo, J	
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X: particularly pertinent by itself	T: theory or principle at the basis of the invention		
Y: particularly pertinent in combination with another document in the same category	E: patent document benefiting from a date prior to the filing date which was not published until this filing date or a subsequent date		
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